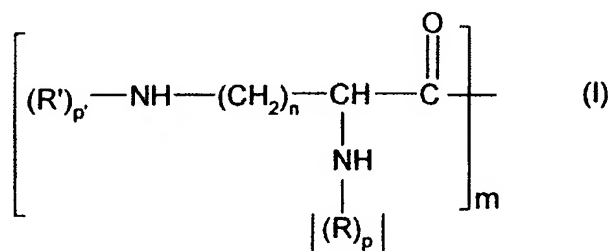


WHAT IS CLAIMED IS:

1. A process for forming a remanent deposit on keratin materials comprising applying to the keratin materials at least one compound of formula (I)



wherein:

n is 3 or 4,

P is different from P', and P and P' are 0 or 1,

wherein

when P' is 0, then the adjacent -NH group is engaged in an N-ε polymerization,

when P is 0, then the adjacent -NH group is engaged in an N-α polymerization;

when P or P' is 1, then R or R' are chosen from A-SH, wherein

A is at least one entity chosen from saturated and unsaturated, linear and branched

C-1 to C-30 hydrocarbon-based chains optionally interrupted with at least one entity chosen from hetero atoms and functional groups and from aromatic and non-aromatic 5-, 6- and 7-membered rings optionally substituted with at least one group chosen from -COOH, -OH, -NH₂, alkyl(C-1 to C-8)amino, acyl(C-1 to C-8)amino, acyl(C-1 to C-8)oxy, alkyl(C-1 to C-8)oxycarbonylamino, alkyl(C-1 to C-8)aminocarbonyloxy, halo, and alkyl(C-1 to C-8)aminocarbonyl groups;

wherein R or R' is also chosen from, in part:

hydrogen, $\begin{array}{c} \text{NH} \\ \parallel \\ \text{---C---NH}_2 \end{array}$ and the salts thereof, and

$\begin{array}{c} \text{---C---NH---C---NH}_2 \\ \parallel \qquad \parallel \\ \text{NH} \qquad \text{NH} \end{array}$ and the salts thereof;

- A may also be chosen from 5-, 6- and 7-membered aromatic and non-aromatic rings, optionally substituted with at least one group chosen from -COOH, -OH, -NH₂, alkyl(C-1 to C-8)amino, acyl(C-1 to C-8)amino, acyl(C-1 to C-8)oxy, alkyl(C-1 to C-8)oxycarbonylamino, alkyl(C-1 to C-8)aminocarbonyloxy, halo, and alkyl(C-1 to C-8)aminocarbonyl groups; and
- m ranges from 3 to 10,000.

2. The process according to claim 1, wherein said hetero atoms and functional groups are chosen from NR₁, O, S, S=O, O=S=O, Si, and C=O, wherein R₁ is chosen from hydrogen, alkyl(C-1 to C-8), acyl(C-1 to C-8), alkyl(C-1 to C-8)oxycarbonyl, alkyl(C-1 to C-8)aminocarbonyl, and halo radicals.

3. The process according to claim 1, wherein m is greater than 5 and less than 1,000.

4. The process according to claim 1, wherein the at least one compound comprises a degree of grafting of thiol function of greater than or equal to 1%.

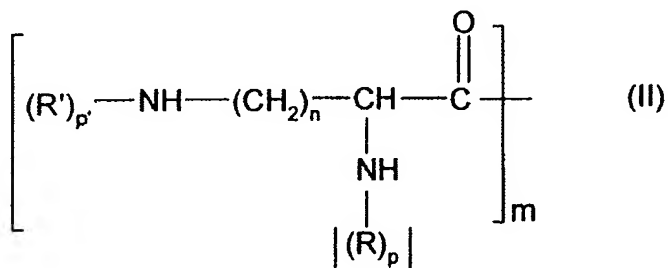
5. The process according to claim 1, wherein the at least one compound further comprises at least one conventional cosmetic active agent.

6. The process according to claim 5, wherein the at least one conventional cosmetic active agent is chosen from conventional anionic cosmetic active agents.

7. The process according to claim 6, wherein the at least one conventional anionic cosmetic active agent is chosen from dyes, conditioners, moisturizers, emollients, and sunscreens.

8. The process according to claim 1, wherein the keratin materials are chosen from skin, nails, and keratin fibers.

9. A compound of formula (II)



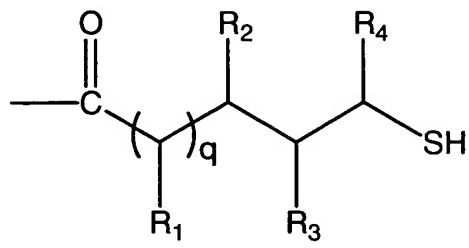
wherein:

n is 3 or 4,

P is different from P', and P and P' are 0 or 1,

wherein

- when P' is 0, then the adjacent -NH group is engaged in an N-ε polymerization and
- when P is 0, then the adjacent -NH group is engaged in an N-α polymerization; and
- when P or P' is 1, then R or R' is A'-SH, wherein

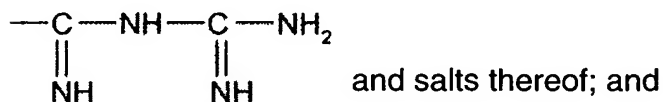
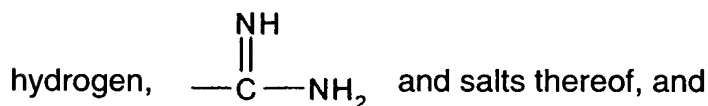


A' is chosen from compounds of formula:

wherein R₁, R₂, R₃, and R₄, which may be identical or different, are chosen from hydrogen, and -COOH, -OH, -NH₂, alkyl(C-1 to C-8)amino, acyl(C-1 to C-8)amino, acyl(C-1 to C-8)oxy, alkyl(C-1 to C-8)oxycarbonylamino, alkyl(C-1 to C-8)aminocarbonyloxy, halo, and alkyl(C-1 to C-8)aminocarbonyl radicals;

wherein q ranges from 1 to 36;

wherein R or R' may also be chosen from



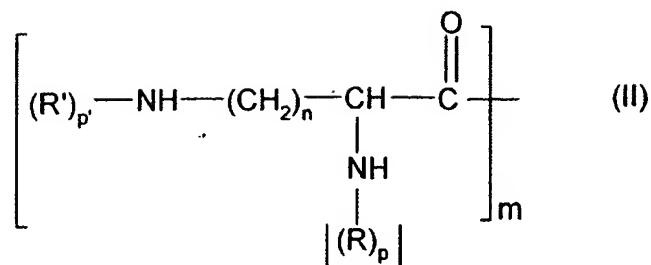
- m ranges from 3 to 10,000.

10. The compound according to claim 9, wherein the degree of grafting of thiol function is greater than or equal to 1%.

11. The compound according to claim 9, wherein q ranges from 3 to 28.

12. The compound according to claim 11, wherein q ranges from 5 to 26.

13. A cosmetic composition comprising, in a cosmetically acceptable medium, at least one compound of formula (II)



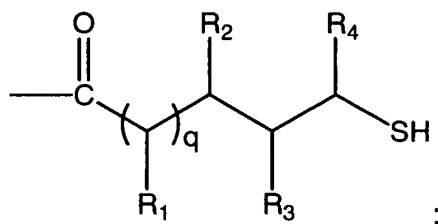
n is 3 or 4,

P is different from P', and P and P' are 0 or 1,

wherein

- when P' is 0, then the adjacent -NH group is engaged in an N-ε polymerization and
- when P is 0, then the adjacent -NH group is engaged in an N-α polymerization; and
- when P or P' is 1, then R or R' is A'-SH, wherein

- A' is chosen from



R₁, R₂, R₃, and R₄, which may be identical or different, are chosen from hydrogen, and -COOH, -OH, -NH₂, alkyl(C-1 to C-8)amino, acyl(C-1 to C-8)amino, acyl(C-1 to C-8)oxy, alkyl(C-1 to C-8)oxycarbonylamino, alkyl(C-1 to C-8)aminocarbonyloxy, halo, and alkyl(C-1 to C-8)aminocarbonyl radicals;

wherein q ranges from 1 to 36;

wherein R or R' may also be chosen from

hydrogen, $\begin{array}{c} \text{NH} \\ || \\ -\text{C}-\text{NH}_2 \end{array}$ and salts thereof, and

$\begin{array}{c} -\text{C}-\text{NH}-\text{C}-\text{NH}_2 \\ || \qquad \quad || \\ \text{NH} \qquad \quad \text{NH} \end{array}$ and salts thereof; and

- m ranges from 3 to 10,000.

14. The composition according to claim 13, wherein the at least one compound of formula (II) is present in the composition in an amount ranging from 0.05% to 30% by weight, relative to the total weight of the composition.

15. The composition according to claim 14, wherein the at least one compound of formula (II) is present in the composition in an amount ranging from 0.1% to 15% by weight, relative to the total weight of the composition.

16. The composition according to claim 15, wherein at least one compound of formula (II) is present in the composition in an amount ranging from 0.25% to 10% by weight, relative to the total weight of the composition.

17. The composition according to claim 13, wherein the cosmetically acceptable medium is chosen from water and at least one cosmetically acceptable solvent.

18. The composition according to claim 17, wherein the at least one cosmetically acceptable solvent is chosen from alcohols, ketones, cyclic volatile silicones, and water-solvent mixtures.

19. The composition according to claim 18, wherein the at least one cosmetically

acceptable solvent is chosen from C-1 to C-4 alcohols.

20. The composition according to claim 13, wherein the composition is housed in an aerosol device.

21. The composition according to claim 20, wherein the composition further comprises at least one propellant.

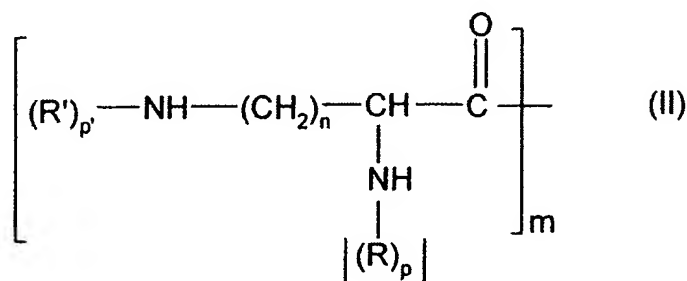
22. The composition according to claim 21, wherein the at least one propellant may be chosen from volatile hydrocarbons, carbon dioxide, nitrous oxide, dimethyl ether, nitrogen, and compressed air.

23. The composition according to claim 22, wherein the at least one propellant is present in an amount ranging from 5% to 90% by weight, relative to the total weight of the composition.

24. The composition according to claim 13, wherein q ranges from 3 to 28.

25. The composition according to claim 24, wherein q ranges from 5 to 26.

26. A process for preparing at least one compound of formula (II)



wherein

n is 3 or 4,

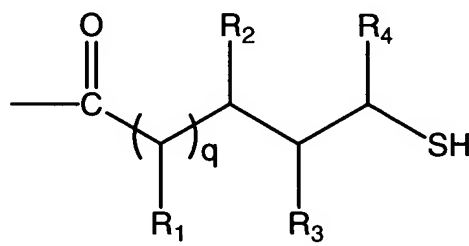
P is different from P', and P and P' are 0 or 1,

wherein,

when P' is 0, then the adjacent -NH group is engaged in an N-ε polymerization;

when P is 0, then the adjacent -NH group is engaged in an N-α polymerization; and

when P or P' is 1, then R or R' is A'-SH, wherein

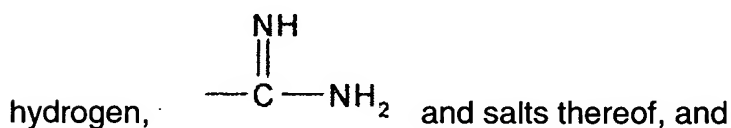


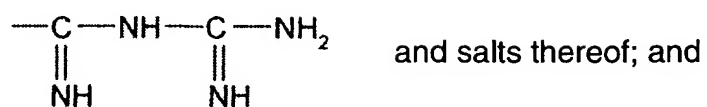
A' is chosen from compounds of formula:

- wherein R₁, R₂, R₃, and R₄, which may be identical or different, are chosen from hydrogen, and -COOH, -OH, -NH₂, alkyl(C-1 to C-8)amino, acyl(C-1 to C-8)amino, acyl(C-1 to C-8)oxy, alkyl(C-1 to C-8)oxycarbonylamino, alkyl(C-1 to C-8)aminocarbonyloxy, halo, and alkyl(C-1 to C-8)aminocarbonyl radicals;

q ranges from 1 to 36;

wherein R or R' may also be chosen from





- m ranges from 3 to 10,000,

comprising reacting, under an inert atmosphere, of poly-N-ε-lysine or poly-N-ε-lysine containing a guanidine or biguanide function with a thiolactone.

27. The process according to claim 26, wherein the thiolactone is chosen from N-acetylhomocysteinethiolactone.

28. The process according to claim 26, wherein q ranges from 3 to 28.

29. The process according to claim 28, wherein q ranges from 5 to 26.